

Name: _____

at1124exam: Radicals and Squares (v816)

Question 1

Simplify the radical expressions.

$$\sqrt{20}$$

$$\sqrt{27}$$

$$\sqrt{12}$$

Question 2

Find all solutions to the equation below:

$$2((x - 5)^2 + 10) = 92$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 6x = 91$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 - 12x + 13$$

Express the function in **vertex form** and identify the **location** of the vertex.